Commonwealth of Kentucky Natural Resources & Environmental Protection Cabinet Department for Environmental Protection

DIVISION FOR AIR QUALITY

(Submit copies of this form for each individual unit. Make additional copies as needed)

DEP7007A

INDIRECT HEAT EXCHANGER, TURBINE, INTERNAL COMBUSTION ENGINE

Emission Point #	
Emission Unit #_	

1)	Type of Unit (Mak	se, Model, Etc.):							
	Date Installed:		Cost of	f Unit:					
	Date Installed: Cost of Unit: Cost of Unit: (Date unit was installed, modified or reconstructed, whichever is later.)								

	Where more than one unit is present, identify with Company's identification or code for this unit:								
2a)	2. Gas Turbine : 3. Pipe Line Con	Exchanger	1. Fuel 2. Pow Pow	apacity: (Refer to manufactur l input (mmBTU/hr): er output (hp): er output (MW):					
CECT	ION 1. FUEL								
3) Type of Primary Fuel (Check): A. CoalB. Fuel Oil # (Check one)123456 C. Natural Gas D. PropaneE. ButaneF. WoodG. Gasoline H. DieselI. Other (specify)									
4)	Secondary Fuel (i)	any, specify type):							
5)	Fuel Composition								
3)	r uer composition	Percent Ash ^a	Percent Sulfur ^b	Heat Content Con	rresponding to: c, d				
	Туре	Maximum	Maximum	Maximum Ash	Maximum Sulfur				
	Primary								
	Secondary								
 a. As received basis. Proximate Analysis for Ash. (May use values in your fuel contract) b. As received basis. Ultimate Analysis for Sulfur. (May use values in your fuel contract) c. Higher Heating Value, BTU/Unit. (May use values in your fuel contract) d. Suggested units are: Pounds for solid fuel, gallon for liquid fuels, and cu. Ft. for gaseous fuels. If other units are used, please specify. 									
6)) Maxi mum Annual Fuel Usage Rate (please specify units)*:								
7)	Fuel Source or supplier:								
	-				_				

^{*}Should be entered only if applicant requests operating restriction through federally enforceable limitations.

8)	MAXIMUM OPERATING SCHEDULE FOR THIS UNIT*						
	hours/day	days/week	weeks/year				
9)	If this unit is multipurpose, describe percent in each use category:						
	Space Heat% Proces		Power %				
10)	Control options for turbine/IC engine(1) Water Injection(3) Selective Catalytic Reduction ((5) Combustion Modification)		_ (2) Steam Injection _ (3) Non-Selective Catalytic Reduction (NSCR) _ (5) Other (S pecify)				
IMP	ORTANT: Form DEP7007N must al	so be completed for this u	iit.				
SEC'	TION II COMPLETE ONLY FOI	R INDIRECT HEAT EXC	HANGERS				
11)	Coal-Fired Units						
	Pulverized Coal Fired:		Fly Ash Rejection:				
	Dry Bottom Wall Fired Wet Bottom Tangentially	Fired	☐ Yes ☐ No				
	Cyclone Furnace		Spreader Stoker				
	Overfeed Stoker		Underfeed Stoker				
	Fluidized Bed Combusto	r:	Hand-fed				
	Circulating Bed	i	Other (specify)				
	Bubbling Bed Other (specify)						
12)	Oil-Fired Unit						
	Tangentially (Corner) Fired		Horizontally Opposed (Normal) Fired				
13)	Wood-Fired Unit						
	Fly-Ash Reinjection:	s 🗆 No					
	Dutch Oven/Fuel Cell Oven	Sto	ser Suspension Firing				
	Fluidized Bed Combustion (FBC)						
14)	Natural Gas-Fired Units						
	_ Low NO _x Burners:	☐ Yes ☐ N	o				
	Flue Gas Recirculation:	☐ Yes ☐ N	0				

^{*}Should be entered only if applicant requests operating restriction through federally enforceable limitations.

15)	Combustion Air Draft: Natural Induced	_					
	Forced Pressure lbs/sq. in.						
	Percent excess air (air supplied in excess of theoretical air) %						
SECT	IION III						
16)	Additional Stack Data						
	A. Are sampling ports provided?						
17)	Attach manufacturer's specifications and guaranteed performance data for the indirect heat exchanger. Include information concerning fuel input, burners and combustion chamber dimensions.						
18)	Describe fuel transport, storage methods and related dust control measures, including ash disposal and control.						

^{*}Applicant assumes responsibility for proper location of sampling ports if the Division for Air Quality requires a compliance demonstration stack test.